

Luther

GRINDERS
VISES AND
HARDWARE
SPECIALTIES

CATALOG No. 40

LUTHER

TOOL AND SICKLE GRINDERS

HAND - FOOT - BELT

MOTOR POWER

SCYTHE STONES

GRINDING WHEELS

PORTABLE BENCH VISES

LAWN MOWER GRINDERS

SKATE GRINDERS

MANUFACTURED by the best known, largest and oldest Tool Grinder Manufacturer in the world.

Luther Products are recognized leaders. Since 1896 they have been accepted as the standard by mechanics and farmers in every country all over the world.

All Luther Products are fully guaranteed.

Luther Grinder & Tool Co.

112 S. Second Street

Milwaukee, Wis.

U. S. A.

Cable address LUTHER. All codes.

Luther Guarantee

Every Luther product is sold with a definite guarantee that material is the best and workmanship is unequalled. Defects in material or workmanship will be adjusted to the satisfaction of the user.



Luther is the Pioneer

For many years the only grinders on the market were Luther grinders. These first grinders were rather crude in construction. The high standard of the Luther grinders of today shows clearly how this Company has utilized every opportunity for improving the product. These grinders have gained the enviable reputation of being recognized as standard for quality and performance, ease of operation, durability and efficiency.

Experience Counts

Manufacturing experience since 1896 allows us to make the best grinder for that purpose that can be built.

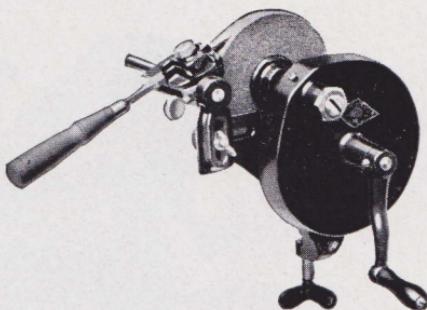
Luther Always Leads

The lead gained by this Company has never been overcome. Every important change or real improvement first appeared on Luther grinders.

The Luther Company was the first company to make use of an artificial abrasive on sharpening machines.

The splendid reputation we enjoy means that we have given customers honest value and better than average quality. This is the foundation on which to build a successful business.

Nos. 14, 15, 16, 17, 18



Mechanics' Special Grinders

A heavy duty, ball bearing grinder made for accurate, high speed grinding. All parts extra heavy and strong, accurately machined and assembled.

Used by mechanics, carpenters, railroads, farmers, mines, quarries, factories, garages, shipyards and all other users of edge tools wherever a dependable grinder is needed.

One-piece dustproof gear case insures permanent alignment of all bearings; special designed ball bearing end thrust take up up for wheel shaft; helical machine cut "basket" drive gear; ground steel wheel shaft.

Fast cutting vitrified Dimo-Grit wheels in medium grit are regular equipment. Electric furnace abrasive insures best quality and efficient service. Carbi grit wheels supplied when requested.

FIVE SIZES

No.	Wheel Size	Weight Packed
14	4 x 1 x 1"	9 1/2 lbs.
15	5 x 1 x 1"	13 lbs.
16	6 x 1 x 1"	16 1/2 lbs.
17	7 x 1 1/4 x 1"	26 lbs.
18	8 x 1 1/4 x 1"	27 lbs.
One in a Carton.		

No. T20 chisel and plane iron holding attachment included as regular equipment.

No. 186A twist drill sharpening attachment can be used on Nos. 15, 16, 17 and 18. This is extra equipment. Sharpens drills $1/4"$ to $7/8"$ in diameter.

Foot power attachment can be furnished, 127A for 14, 15 and 16; and 129A for 17 and 18.

Tool and Drill Grinders

Used by:

Railroads

Shipyards

Schools

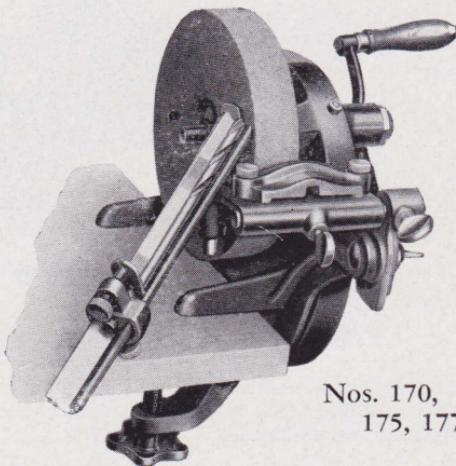
Mines

Garages

Farmers

Mechanics

Etc.



Nos. 170,
175, 177

A heavy duty ball bearing grinder made for dependable grinding service. Especially useful on heavy railway and industrial portable sharpening work. Choice of several attachments and grinding wheels.

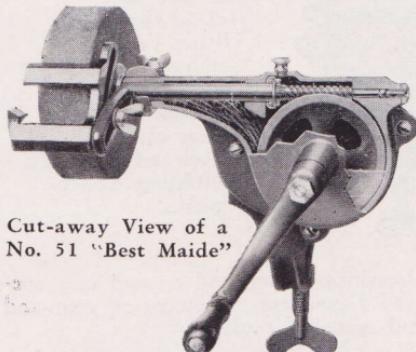
One piece dustproof gear case, clamp and cover separate detachable unit, helical machine cut teeth on gear and wheel shaft, special basket type drive gear, steel clamp screw with 1" to 4" clamping capacity, crank is malleable iron with large wood grip, self-closing oilers, high grade vitrified Dimo-Grit grinding wheel.

No. 170 — Railway Special, includes redresser No. 141, combination tool rest and chisel holding attachment No. T20 and a select brand grinding wheel 7 x 1 $\frac{3}{8}$ ". Shipping weight 27 pounds.

No. 175 — Railway Grinder, includes a practical twist drill attachment with capacity $\frac{3}{16}$ " to 7/8", a well made chisel holding device which is also used for a plain tool rest, and a 7 x 1 $\frac{1}{4}$ " grinding wheel. Shipping weight 28 pounds.

No. 177 — Railway Grinder, includes the twist drill attachment No. 186A, chisel and pipe die attachment No. 188A, flat drill attachment No. 187A, and adz attachment No. 184A, redresser No. 141 and a 7 x 1 $\frac{1}{4}$ " grinding wheel. Shipping weight 34 pounds.

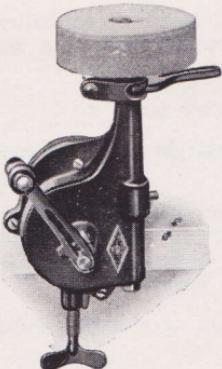
"Best Maide" 4", 5" and 6" Grinders
Nos. 50, 51 and 52



Cut-away View of a
No. 51 "Best Maide"

Illustration shows inside construction of Best Maide grinders. Notice the long bearings for wheel shaft and that a ball bearing end thrust, plus a ball race are used. Ball bearings, and helical cut gears, makes the smoothest and quietest running grinder.

A very high grade ball bearing tool grinder — light and quiet running. Fully enclosed dustproof one-piece gear case. Long substantial bearings, accurately machined. Helical machine cut gear and wheel shaft.



Tilting frame enables user to sharpen in horizontal position. Fine grit size of wheel thereby utilized for honing and finishing work. Clamping device is simple and positive — grinder operates at any angle.

Grinding wheel is combination grit — body of medium grain and one side has about $\frac{1}{4}$ inch of very fine grain. Two wheels in one — wheel is reversible.

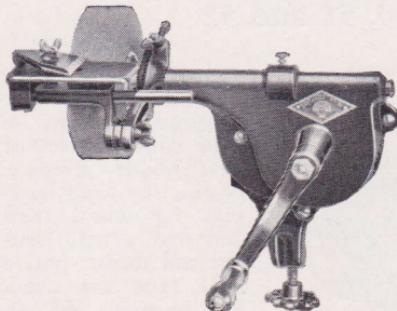
Equipment includes chisel holding attachment and combination grit wheel, as illustrated.

No. 50 Best Maide Grinder and chisel attachment.
No. 51 Best Maide Grinder and chisel attachment.
No. 52 Best Maide Grinder and chisel attachment.

4x1 $\frac{1}{2}$ x7/16" combination grit wheel.
Packed weight 13 pounds.
5x1 $\frac{1}{2}$ x7/16" combination grit wheel.
Packed weight 14 pounds.
6x1 $\frac{1}{2}$ x7/16" combination grit wheel.
Packed weight 15 pounds.

(See other side for mechanical description.)

"Best Maide" Superior Construction



FEATURES

- Ball Bearings.
- Helical Gears.
- Tilting Frame.
- Combination Grit Wheel.
- Enclosed one-piece gear case.
- Chisel and Plane Bit Holding Attachment.

One-piece gear case. All bearings drilled and reamed in a special jig; insures positive and permanent alignment of gear and pinion. Bearings chambered special for oiling.

Ball bearing end thrust takes up any end play in wheel shaft.

Enclosed ball race placed in housing on shaft to reduce friction; also makes grinder easier to operate, and quieter.

Pinion, or wheel shaft, made of cold rolled steel, machined and ground to size. Helical cut teeth with end thrust ball bearings.

Gear is made of cast iron, carefully machined, teeth helical machine cut. Extra heavy construction, reduces vibration and insures longer life.

Crank, split type malleable, with large wood grip.

Crank shaft, made of cold rolled steel, straight shank, ground to size.

Swivel feature. Grinder can be tilted upright, or to any desired position, quickly and easily. This is a patented Best Maide feature. Adjustment for swiveling on the back; only necessary to loosen a wing nut and shift grinder to position.

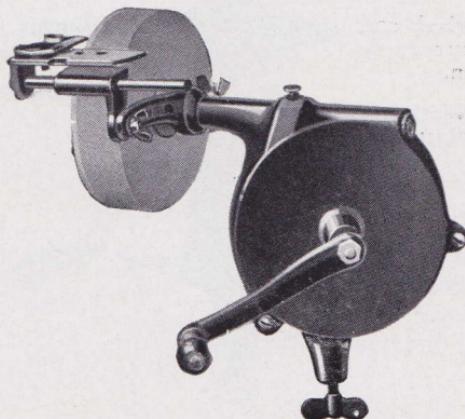
Work rest, is adjustable. It accommodates special chisel and plane bit holding attachment.

Self closing oiler in pinion bearing, keeps grit out of case.

Grinding wheel of combination grit is made with double recess. It can be reversed and either the fine or the medium side placed on the outside. Double grit wheel gives the user two wheels in one, the medium side for the quick removal of stock and the fine side for finishing work.

Baked red enamel finish.

"Best Maide" Grinder
No. 56



The largest grinder in the Best Maide Line. The grinding wheel shaft is set off at an angle of about 30 degrees so that the most awkward tool can be sharpened without danger of striking the crank. High speed, heavy construction. Grinder can be tilted so the wheel is in an upright position. This makes it easy for the operator to use the fine flat side of the wheel for finishing or honing purposes.

Equipment

No. 1007B — Chisel and Plane Bit Holding Attachment. Combination grit $6 \times 1\frac{1}{2} \times \frac{7}{16}$ " grinding wheel, body of medium grain and face of extra fine grain for finishing work.

Net weight of grinder, 15 pounds
Shipping weight, $17\frac{1}{4}$ pounds

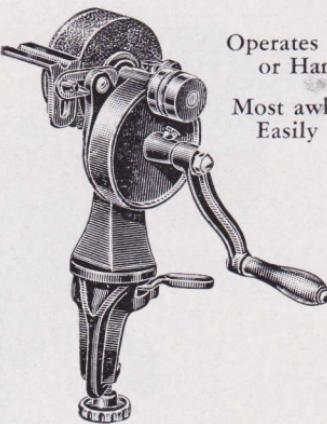
Luther "Workshop" Tool Sharpener

The Greatest Improvement in Tool Grinders

Grinder Swivels and Locks Securely at any Position.

Operator Works at any Angle most Convenient.

A Portable Power Grinder with Genuine Carborundum Brand Wheel 1½" wide, with fine hone grit side.



Operates from Belt or Hand Crank

Most awkward Jobs Easily Handled

EXTRA EQUIPMENT
Twist Drill Sharpening Attachment.
Plane Bit Sharpening Attachment.

EXTRA EQUIPMENT
Wire Wheel, 5 inch.
Buffing Wheel, 5 inch.
Chuck.

This "Workshop" Line of Tool Sharpeners is a Sure Sales Producer — 100 Per Cent New — Absolutely in a Class by Itself

Many Unusual and Exclusive Features in "Workshop" Line
Swivel base enables operator to work at any angle most convenient to easily handle awkward jobs. Pulley at end of pinion shaft is grooved for V belt or round belt, also adapted for flat belt. The genuine Carborundum Brand Abrasive Wheel is 1½" wide and has fine hone grit side. This exceptional width and the hone grit side appeals tremendously to the home work shop man, carpenter, farmer and every mechanic in garage or shop who works with fine edged tools. The Abrasive Wheel is reversible and shaft is counter sunk so that shaft does not project. Tool rest is interchangeable to either side of wheel for right or left hand operator. Sturdy one-piece gear case assures perfect and permanent alignment. Equipped with easily accessible self-closing oil cups. Extra heavy gear pinion supported by sturdy bearing. Swivel clutch is accurately machined and locks securely at any position. Castelled nut provides take-up wear in clutch, if necessary. Grinder may be bolted down; holes provided in base.

SPECIFICATIONS

	L 4 1/2	L 5 1/2	L 6 1/2
"Workshop" Nos.			
Wheel Size.....	4x1 1/2x 7/8"	5x1 1/2x 7/8"	6x1 1/2x 1 1/2"
Distance—Wheel Shaft to Bench..	7 1/2"	7 1/2"	8"
Diameter of Gear Case	4 1/8"	4 1/8"	4 3/4"
Diameter of Wheel Shaft	7/8"	7/8"	7/8"
Pulley Diameter, Face.....	1 1/2x1 1/4"	1 1/2x1 1/4"	1 3/8x1 1/4"
Weight Packed.....	9 1/2 lbs.	10 1/4 lbs.	16 lbs.

Barber Shear and Clipper Grinder No. 1551



This is the only device of its kind on the market; any barber can sharpen his own shears and hair clippers accurately. No especial skill is required to operate the grinder or the attachments.

REGULAR EQUIPMENT

No. 551A Shear Holding Attachment

No. 1007B Chisel and Plane Bit Holding Attachment

4 x 1 1/2 x 7/8" Fine Carborundum Grinding Wheel
5 x 3/4 x 7/16" Very Fine Carbo Wheel—Specially Bonded for
Clipper Sharpening

W9 Wrench, for wheel nut

Net weight 14 pounds. Shipping weight 23 pounds.

Clipper Sharpening

The sharpening of clippers is accomplished by placing the very fine specially bonded Carbo Wheel into the recess of the regular wheel and by moving the clipper back and forth across the special wheel, as it is slowly revolved.

Mechanical Description

No. 1551

ONE-PIECE GEAR CASE. All bearings drilled and reamed in a special jig; insures positive and permanent alignment of gear and pinion. Bearings chambered special for oiling.

BALL BEARING end thrust to take up any end play in wheel shaft; enclosed ball race placed in housing on shaft to reduce friction; makes grinder easier to operate, and quieter.

PINION, or wheel shaft, made of cold rolled steel, machined and ground to size. Helical cut teeth, parts of at least three teeth in mesh at all times; means greater pulling power and longer life.

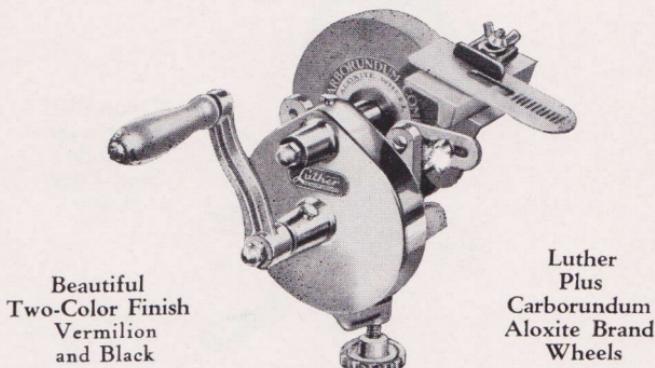
GEAR is made of cast iron, carefully machined, teeth helical machine cut. Extra heavy construction, reduces vibration and insures long life.

CRANK. Split type malleable, with large wood grip. Crank shaft, made of cold roller steel, straight shank; ground to fit.

SWIVEL FEATURE. Grinder can be tilted upright, or to any desired position. Quickly and easily adjusted. A patented feature.

SHEAR HOLDING DEVICE gives the shears a uniform, correct bevel. The same bevel is ground on the shear blade from heel to tip. Any desired bevel can be maintained after the attachment has been set in proper position. Special adjustable stop casting raises tip of shear when near the wheel edge to prevent rounding.

CLIPPER SHARPENING is done by placing the very fine, specially bonded Carborundum disc wheel on top of the regular grinding wheel with the steel hub of the disc wheel fitting into the recess of the regular wheel. The disc wheel should not be revolved too fast. The clipper is then moved back and forth across the disc wheel while being revolved by the crank. Keep disc wheel dry. When it becomes too smooth, it can be resurfaced by placing a sheet of fine sand paper of about 00 grit on a flat surface and rubbing disc wheel thereon.

"MASTER" Tool Grinders**Mechanical Excellence and Features that Make it an Outstanding Grinder**

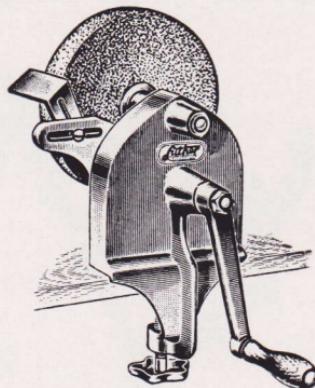
The full experience of over thirty-six years of building good tool grinders has been put into the "Master" Line of Luther Grinders, giving the trade what are undoubtedly the finest tool grinders ever built, and at a low price.

Consider these Features:

1. The Luther name, internationally known and respected.
2. Carborundum Aloxite Brand Wheels, especially bonded for use with hand tool grinders. This insures greater cutting ability and longer wear. (*Exclusive Feature.*)
3. Attractive Vermilion and Black Finish. An unusually fine looking tool.
4. Chisel and Plane Bit Attachment by which any novice can do an expert job of hollow grinding on any fine edge tool. (*Exclusive Feature.*)
5. Adjustable Tool Rest for either right or left hand operation. (*Exclusive Feature.*)
6. Double Crankshaft Bearings which give gear support at both ends of shaft. This, with the long, one-piece spindle bearing, holds gears in perfect alignment in spite of hard use. (*Exclusive Feature.*)
7. Elimination of end thrust through use of wide, accurately made Spur Cut Gears. (*Insures long wear.*)
8. Easily accessible, self closing oil cups.
9. One-piece dust-proof gear case, flanged inwardly for retaining oil.
10. Crank of malleable iron — not case grey iron — with big wood grip.

Brand and No.	Wheel and Size	Pack. Wt.
Master No. 114	4x1x $\frac{5}{16}$ " Aloxite Wheel	6 $\frac{3}{4}$ lbs.
Master No. 115	5x1x $\frac{3}{8}$ " Aloxite Wheel	9 $\frac{1}{4}$ lbs.
Master No. 116	6x1x $\frac{3}{8}$ " Aloxite Wheel	11 $\frac{3}{4}$ lbs.
Master No. 117	7x1x $\frac{3}{8}$ " Aloxite Wheel	13 lbs.

“Milwaukee” Brand Tool Grinders



“Dimo-Grit”
Wheels are
Fine for
Steel Edge
Tools

New design and construction brings the gear case entirely over the bench, giving a more solid mounting and with a minimum of vibration. Height of case also permits use of larger wheel sizes and the work is elevated to a more convenient place. Equipped with the finest quality vitrified grinding wheels.

Outstanding Features

One piece grey iron gear case, enclosed and dust-proof, flanged inwardly for oil retaining.

Bearings heavy, long and evenly divided, adding to ease of operation and life of all parts.

Spur cut gears, accurately made, wide face drive gear. Rust-proofed adjustable work rest.

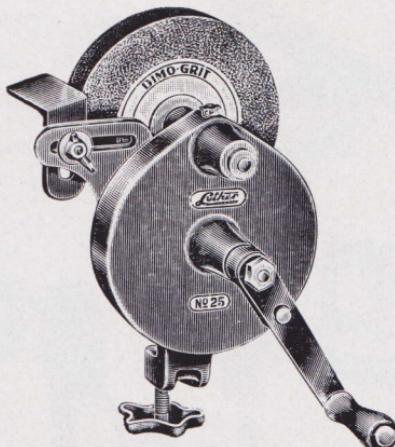
Crank fastened with key and taper socket plus a nut on the outside making a positive slip-proof mounting. Bench screw permits use anywhere; steel screw with sturdy notched iron hand grip.

Fine quality orange-red finish, baked on. Durable and attractive.

Regular Stock Furnished with DIMO-GRIT Wheels

No.	Brand	Size Wheel	Weight
M4	4" Milwaukee	4x1x $\frac{5}{16}$ "	5 lbs.
M5	5" Milwaukee	5x1x $\frac{3}{8}$ "	7 $\frac{1}{4}$ lbs.
M6	6" Milwaukee	6x1x $\frac{3}{8}$ "	9 $\frac{1}{4}$ lbs.
M7	7" Milwaukee	7x1x $\frac{3}{8}$ "	10 $\frac{1}{2}$ lbs.

"Standard"
Nos. 24, 25, 26 and 27



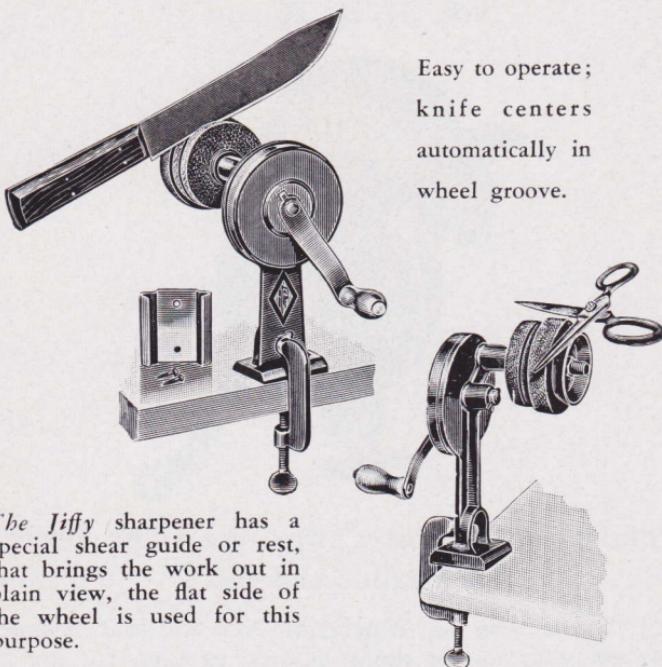
Finished in Attractive Two-Color Gloss Enamel,
Vermilion and Black

An easy running and dependable tool and knife grinder for everyday use in shops, homes, garages, for use by carpenters, lathers, mechanics, plumbers, in tool kits, etc., or wherever a portable tool grinder is needed. Easy to carry and clamps on anywhere. Accurately made and attractively finished in durable baked enamel.

Fast and cool cutting vitrified improved Dimo-Grit wheel, machine cut teeth on gear and wheel shaft, one piece case keeps bearings in perfect alignment always, keyed crank with large wood grip, adjustable work rest, steel bench screw, steel wheel flange and washer, self-closing oilers. One grinder with complete equipment packed in a carton.

Number	Wheel Size	Packed Wt.
24 "Standard"	4 x 1 x $\frac{3}{8}$ " (medium)	6 lbs.
25 "Standard"	5 x 1 x $\frac{3}{8}$ " (medium)	8 $\frac{1}{2}$ lbs.
26 "Standard"	6 x 1 x $\frac{3}{8}$ " (medium)	11 $\frac{1}{4}$ lbs.
27 "Standard"	7 x 1 x $\frac{3}{8}$ " (medium)	12 lbs.

Jiffy Household Sharpener



The Jiffy sharpener has a special shear guide or rest, that brings the work out in plain view, the flat side of the wheel is used for this purpose.

Easy to operate;
knife centers
automatically in
wheel groove.

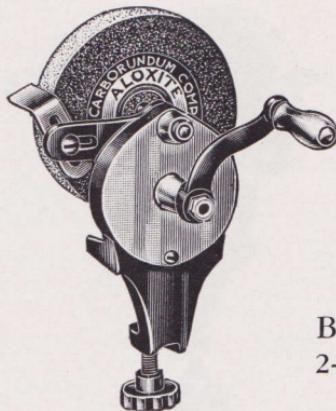
The Jiffy sharpener is always ready for use, it clamps on anywhere, or it may be mounted on the wall or a kitchen cabinet using a stamped steel wall bracket. With the wall bracket and the bench clamp the grinder is ready for use anywhere.

The wheel is in two units, one having a raised section used for chisels and similar flat tools. Inside corner may be utilized for pointed tools—ice picks, awls, etc. The groove between the two sections allows even contact the full life of the wheel, and it accommodates knives of all descriptions, hand sickles, etc. Wheel cuts smooth and cool.

A unique and substantial internal gear drive, one pinion or moving part, insures positive power, enclosed working parts. Substantially made throughout, fully guaranteed. Attractive and durable enamel finish in two colors.

One *Jiffy Sharpener* in an attractive display carton which has full operating instructions on it. Equipment includes twin wheels, table clamp wall bracket with screws, all complete for use. Weight complete $1\frac{3}{4}$ pounds.

"Beauty" Tool Grinders



Built for
Service

Beautiful
2-Color Finish

With Carborundum Aloxite Wheel

The finest low priced grinders, equipped with genuine Carborundum Aloxite brand wheels. An excellent inexpensive grinder for home or shop work.

Attractive two color enamel finish. One piece gear case, wide spur cut gear, long bearings. Adjustable tool rest. Malleable crank.

Quality Points

Carborundum Aloxite Brand
Grinding Wheels.

Long bearings — drilled and
reamed out of solid metal
(no chambered bearings).

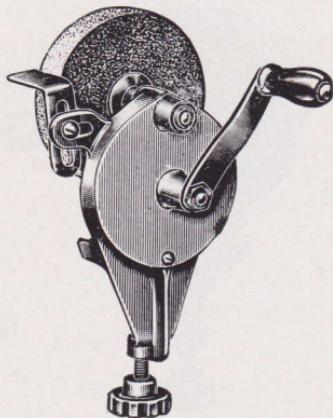
Wide substantial cast iron
gears, accurately machined
(no stampings).

Orange and black, two color
baked enamel finish.

Untarnishable Two-Color Finish

No.	Wheel	Grit	Pkd. Wt.
194	4x1x5/16"	Med.	5 1/2 lbs.
195	5x1x3/8"	Med.	6 1/2 lbs.
196	6x1x3/8"	Med.	7 1/2 lbs.

"Warren" Tool Grinders



The best value in competitive grinders. An inexpensive but reliable grinder for home and light shop grinding and sharpening.

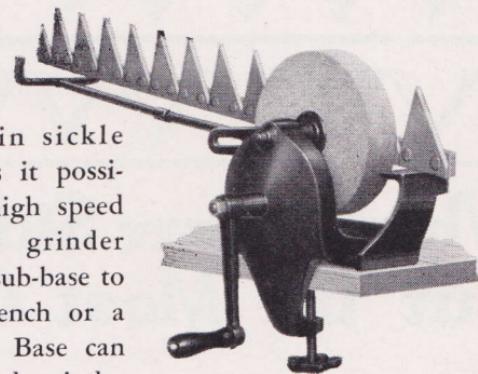
Wide accurately spur cut gears, which eliminate end thrust, such as developed by helical gears. Helical gears are mechanically incorrect unless equipped with ball bearings to take up end thrust as in our Mechanic's Special and Best Maide grinders.

One piece cast iron gear case with long bearings which are drilled and reamed out of solid metal (no chambered bearings). Good quality grinding wheels. Adjustable tool rest. Attractive baked enamel finish.

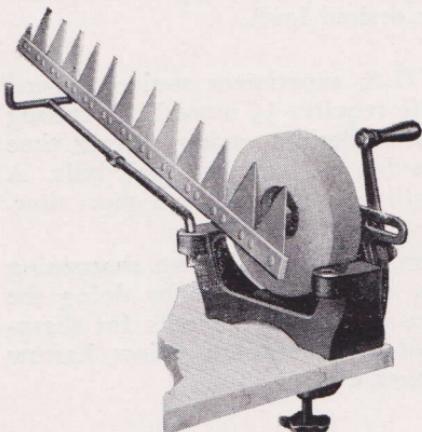
No.	Wheel	Grit	Pkd. Wt.
44	4x1x5/16"	Med.	5 1/2 lbs.
45	5x1x5/16"	Med.	6 1/2 lbs.
46	6x1x5/16"	Med.	7 1/2 lbs.

Sickle and Tool Grinder "Milwaukee" No. 76

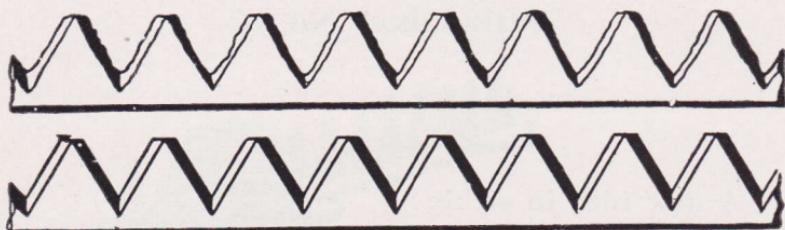
A new idea in sickle grinders makes it possible to use a high speed enclosed case grinder with a special sub-base to clamp on a bench or a mower wheel. Base can be removed and grinder used as tool grinder.



This is a dependable farm grinder for sharpening all edge tools, mower knives, axes, etc. Plenty of speed and power for all jobs. Coarse grit wheel cuts cool and quickly. Side grinding makes it possible to grind an even and accurate bevel on all mower knife sections, from tip to heel. Light pressure only is needed, which eliminates heating or burning of section edges.



No. 76 Milwaukee comes equipped with a $6 \times 1\frac{1}{4} \times 1"$ coarse Dimo-Grit grinding wheel, support rod and sub-base, adjustable tool rest. Grinder is accurately made throughout having patented one-piece gear case, helical machine cut gear and wheel shaft. Packed weight $14\frac{1}{2}$ pounds.



Which Mower Sickle Will Cut the Most Grass?

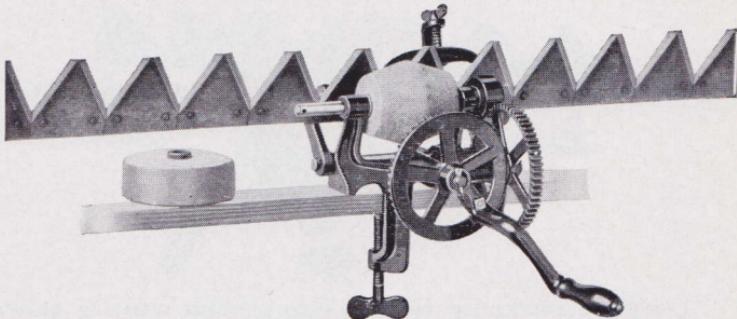
Perhaps your farmer customer's sickles never get as dull as the upper one pictured, but there are plenty that do. And why is it? Because it is usually a hard job to sharpen them, and it's natural to keep putting it off. The result is that one-third more horsepower is required and added wear on the mower.

When you have a LUTHER sickle grinder it's an easy one-man job. A special attachment holds the sickle. Each section is sharpened accurately from tip to heel. All sizes and makes of mower knives may be sharpened with speed and at any desired level.

Tests conducted at a U. S. experiment station showed that a dull mower knife requires $\frac{1}{3}$ more H. P. cutting hay than a sharp knife. Besides saving cutting time there is a big power saving and smaller repair bills. A Luther farm grinder will pay for itself in a short time.

Encourage your customers to do their own sharpening work. They save time, which is money, by doing the work themselves. There is a Luther Grinder for sharpening every cutting tool — sickles, plow points, harrow discs, ensilage knives, axes, etc.

“Spartan” Sickle and Tool Grinders
Nos. 82 and 83



Made exclusively for general farm grinding, principally sickle grinding.

High speed — twenty turns of cone to one of crank. Grinder can be clamped on mower wheel or bench. Improved type sickle holding attachment: Six sections can be ground before reclamping bar in holder. Attachment easy to adjust and operate, grinding under full control with accurate uniform bevels at all times. Back rest or support prevents bar tipping backwards. Machine cut pinion — spur teeth — smooth and easy running. Guard over pinion.

No. 82. Equipment includes $3\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ " sickle cone of DIMO-GRIT and sickle holding attachment. Shipping weight No. 82 — 16 pounds.

No. 83 as illustrated. The same as No. 82, except that a $4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " — 17 1/C DIMO-GRIT tool grinding wheel is also included.

Shipping weight No. 83 — 18 pounds.

"Ball Bearing" Sickle and Tool Grinders

Nos. 84 and 85



Designed especially for the farmer who wants a good quality hand power sickle and tool grinder. Substantial construction; ball bearing thrust eliminates friction and end play in shaft. Clamps on mower wheel or bench.

Drive gear and pinion machine cut, helical teeth, parts of three teeth in mesh always; insures longer life and smooth action. Ball bearings on wheel shaft. Special sickle holding attachment; easy and simple to grind mower knives. Grinds six sections before reclamping. Accurate uniform bevel from tip to heel. Holds any length sickle bar. A back rest or support prevents bar tipping backwards.

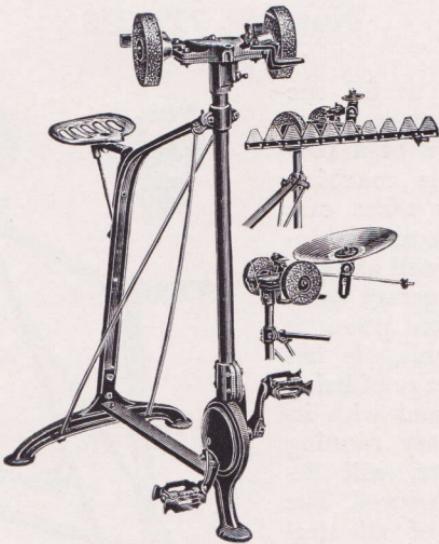
No. 84. Equipped with double-beveled DIMO-GRIT sickle cone, size $3\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ "; also sickle holding attachment.

Weight No. 84 — 16 pounds.

No. 85 as illustrated. Same as No. 84, including a $4\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ " 17 1/C Medium DIMO-GRIT tool grinding wheel.

Weight No. 85 — 18 pounds.

"Hummer" Tool and Sickle Grinder
No. 271



The most popular and efficient foot power grinder made. A practical grinder for general grinding in the shop, around the farm or ranch, in construction and road building gangs. Grinder is made entirely of metal. The head can be swiveled to any horizontal position. Machine cut worm gear and shaft, ratio 24 to 1, bevel gear drive.

Overall height 42 inches. Net weight 60 pounds. Shipping weight 80 pounds. Packed KD in crate.

Equipment

One 70 grain (medium) $6 \times 1\frac{1}{4} \times 1$ " Dimo-Grit Wheel
R1S $2 \times 1\frac{1}{2}$ -inch.

One 36 grain (coarse) $6 \times 1\frac{1}{4} \times 1$ " Dimo-Grit Wheel
R1S $2 \times 1\frac{1}{2}$ -inch.

One 17B Combination Sickle and Disc Attachment.

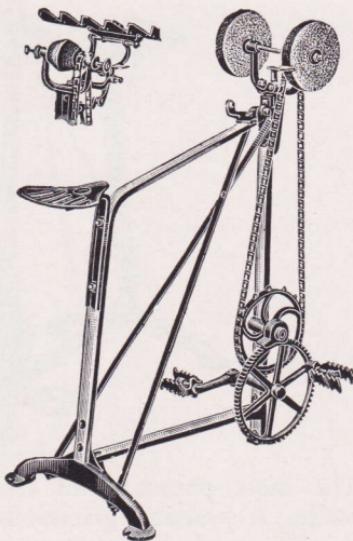
One R92 Drop Tool Rest.

One R69G Plain Tool Rest.

One 1007H Chisel and Plane Bit Sharpening Attachment.

Efficient Foot Power Sickle and General Tool Sharpener Nos. 260, 259, 258

Designed to fill the need for a foot power sharpener at a low price, this machine adequately takes care of all farm tool sharpening, as well as light shop and garage work where belted power is not available. It has the advantage of being portable, and with its smooth, easy running chain drive, will develop high speed. The frame is of all steel channel construction with sturdy cross braces, and due to its 3-point base, will stand rigidly anywhere.



Drive chain is of the certified malleable link type, and the grinder head is adjustable up or down to tighten or loosen chain. Buffing and polishing wheels may be mounted.

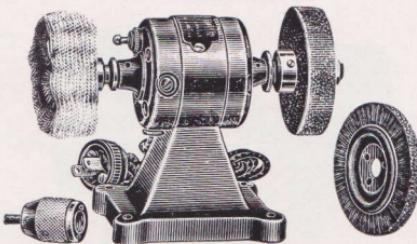
This grinder can be furnished as follows:

No. 260—With Sickle Wheel, $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ "; Sickle Holder Attachment; also two $6 \times 1 \times \frac{3}{8}$ " Tool Wheels, one medium and one coarse grit. Weight 54 lbs.

No. 259—With two $6 \times 1 \times \frac{3}{8}$ " Tool Wheels only, one medium and one coarse grit. Weight 48 lbs.

No. 258—With Sickle Wheel, $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ "; Sickle Holder Attachment; also one $6 \times 1 \times \frac{3}{8}$ " medium grit Tool Wheel. Weight 50 lbs.

Luther Jr. "Electric" Tool Sharpener



Luther Jr. Model E12

Designed for Householders, Carpenters, Paper-hangers, Painters, Doctors, Dentists, Jewelers, etc. Unsurpassed for general use on small tools or as a light duty electric household sharpener, buffer or silverware polisher. Nothing more practical for a boy's workshop. Two V type pulleys on motor makes it adaptable to many uses besides grinding. Also includes a guard with adjustable tool rest which is especially bevelled for scissor grinding. Consider these features: Simplicity and durability plus compact design and light weight; attractive two-color finish, baked-on enamel; conveniently located toggle switch for starting and stopping motor. Extra equipment: chuck and wire wheel.

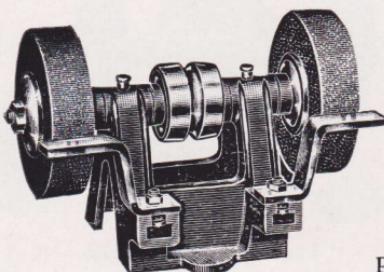
The operator's undivided attention and both hands can be given to the sharpening of tools or the polishing of silverware. Substantial base is rubber cushioned to eliminate vibration and drilled for screws at four corners.

Special structure creates unusual power for a motor of this size. Plenty of power to do all light tool grinding jobs. Approximate wheel speed without grinding load, 9000 R. P. M.; with load (depending on size) 2000 to 5000 R. P. M. Universal motor, operating on 105-125 volt, 25-60 cycle, alternating or direct current; long, $\frac{3}{4}$ " high-grade white metal bearings (better than bronze) packed with a wick for self-oiling.

The Luther Jr. Electric Tool Sharpener is $5\frac{1}{4}$ " high by $7\frac{3}{8}$ " long overall and weighs 4 lbs. Comes packed in corrugated box. Twelve boxes to a carton.

Luther Jr. Model E12.....
3" wire wheel
$\frac{1}{4}$ " capacity chuck

Luther Light Duty Power Grinder Head



Extremely
Low Prices

Models
P214 and P215

An all 'round inexpensive Power Head that answers every need of the most exacting user. This product represents New Low Prices in the field of quality Power Grinder Heads.

1. Strong and sturdy construction finished in durable red enamel presenting a very attractive finish as a shop workroom necessity.
2. Two adjustable tool rests.
3. Iron pulley $1\frac{1}{2}'' \times 1\frac{1}{2}''$ to accommodate flat belt or V belt running best at 2500 to 3000 R. P. M.
4. Two $1\frac{3}{4}''$ bearings oiled directly with self-closing oil cups.
5. Machine supplied with two 4" or 5" vitrified grinding wheels, one coarse and one medium, or one 4" or 5" medium vitrified grinding wheel and one 4" or 5" polishing or buffing wheel. Wire wheels for metal brushing and polishing can be furnished if desired.
6. Diameter of Spindle, $\frac{1}{2}''$; diameter of Spindle between flanges, $\frac{3}{8}''$; length of Spindle, 9"; overall height, $5\frac{1}{2}''$; distance between wheels, $5\frac{1}{2}''$; bench space, 4x4".

Model	Wheels, Weight,		
	Inches	Pounds	Price
P210 — Power Head only.....	None	$4\frac{3}{4}$	....
P214 — One Coarse and one Medium Grinding Wheel	$4 \times 1 \frac{3}{8}$	$6\frac{3}{4}$	....
P215 — One Coarse and one Medium Grinding Wheel	$5 \times 1 \frac{3}{8}$	$7\frac{3}{4}$	....
P214B — One Med. Grinding Wheel and one Buffing Wheel.....	$4 \times 1 \frac{3}{8}$	6	....
P215B — One Med. Grinding Wheel and one Buffing Wheel.....	$5 \times 1 \frac{3}{8}$	$6\frac{1}{2}$	....

Power Grinders—Adjustable Bearings

No. 290 Line

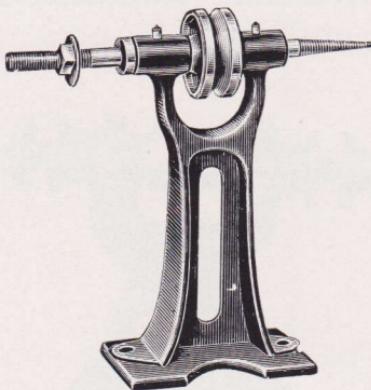


Used in shops, garages, schools, homes, on farms and everywhere grinding and polishing is to be done in a quick and satisfactory way at a minimum expense. Handy for buffing and polishing work. Also for mounting a saw or other special equipment. A $\frac{1}{4}$ H. P. motor will provide more than enough power for general work.

Sturdy construction and well made. Adjustable bearing caps which may be renewed. Screw-in oilers. Shaft $\frac{3}{4}$ " diameter, $9\frac{1}{2}$ " long, $\frac{1}{2}$ " at ends. Height to center of shaft $5\frac{5}{8}$ ", occupies bench space $5\frac{3}{8} \times 5\frac{1}{2}$ ". Pulley size $1\frac{1}{2} \times 1\frac{1}{2}$ " for flat belt but grooved pulley can be supplied. Good enamel finish in two colors. Shaft mounting space 0 to 1". Use wheels 1" or less thick, $\frac{1}{2}$ " hole. One grinder in carton.

Nos.	290	294	295	296
Wheels (2)	None	4x1x $\frac{1}{2}$ "	5x1x $\frac{1}{2}$ "	6x1x $\frac{1}{2}$ "
Packed, Lbs.	8 $\frac{1}{2}$	10 $\frac{1}{2}$	12	13 $\frac{1}{2}$

Polishing and Grinding Heads



Bases are designed so belt may be driven either from above, the side, or below.

No. 300 series have shafts with one end tapered for use of buffs, etc.

The "333" line is similar in appearance to the "300" line, except that shaft, base, wheels, etc., are larger in proportion. *Shaft is straight both ends* and opening capacity is $1/2"$ to $1"$. Red enamel finish on base, nickel finish on washers.

	Light Duty 300 Line	Medium Duty 333 Line
Arbor shaft size.....	$7\frac{1}{2} \times \frac{7}{16}"$	$7\frac{3}{8} \times \frac{1}{2}"$
Pulley Size (grooved).....	$1\frac{3}{4} \times 3\frac{3}{4}"$	$2\frac{1}{4} \times 7\frac{7}{8}"$
Bench area required.....	$3 \times 3"$	$4 \times 3"$
Height to shaft center.....	$6\frac{1}{8}"$	$6\frac{1}{4}"$
Style finish	Red Enamel	Red Enamel
Weight	3 lbs.	$4\frac{1}{2}$ lbs.

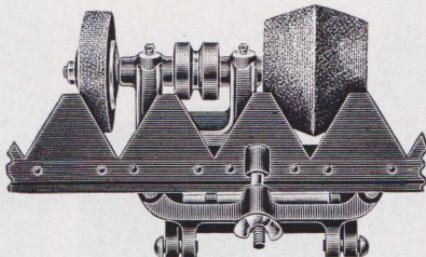
EQUIPMENT SUPPLIED

"300 LINE"	One in Carton Weight
No. 300 Base with shaft, washers, etc.	3 lbs.
No. 301 Grinder with No. 300 A chuck.....	$3\frac{1}{4}$ lbs.
No. 302 Grinder with $2 \times 1\frac{1}{2}"$ wheel.....	3 lbs.
No. 303 Grinder with $3 \times 3\frac{3}{4}"$ wheel.....	3 lbs.

"333 LINE"

"333 LINE"	One in Carton Weight
No. 333 Power Grinder only.....	$4\frac{1}{2}$ lbs.
No. 334 2 medium Dimo-Grit $4 \times 1 \times 1\frac{1}{2}"$ wheels.....	7 lbs.
No. 335 2 medium Dimo-Grit $5 \times 1 \times 1\frac{1}{2}"$ wheels.....	8 lbs.

Luther Light Duty Farm Power Grinder Head



Model P216S at an Extremely Low Price

An inexpensive Power Head that answers every need for General Farm Grinding. This product represents New Low Prices in the field of Quality Power Grinder Heads.

USES

For sharpening any and all tools. 4 1/2" cone wheel for sickle sharpening and 4" tool wheel for general grinding. May be equipped with buffing wheel and wire wheel for polishing and buffing all surfaces. An unusually attractive machine readily adaptable to the varied needs of the farmer and small tool user.

FEATURES

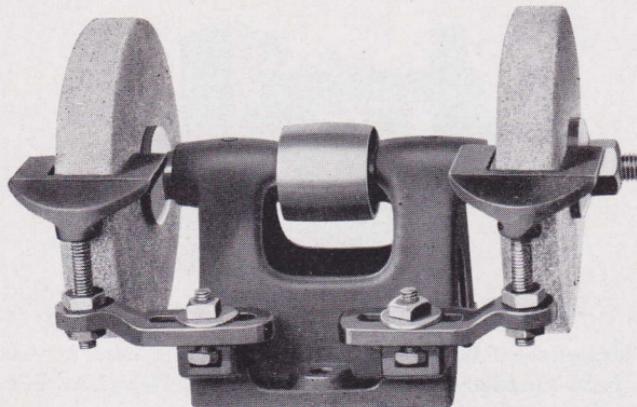
Strong and sturdy construction, finished in red durable enamel, presenting a very attractive finish. Adjustable tool rest. Iron pulley 1 1/2" x 1 1/2", to accommodate flat belt, round belt or V belt running best at 2500 to 3000 R. P. M. Two 1 3/4" bearings oiled directly with self-closing oil cups. Machine supplied with one 4 1/2 x 3 1/2 x 7/16" sickle cone and one 4 x 1 x 3/8" tool wheel. Height from base to center 3 1/2", distance between wheels 4 3/4", bench space 4 x 4", diameter of spindle 1/2", diameter of spindle between flanges 7/16" and 3/8", length of spindle 10".

MODEL P216S POWER HEAD EQUIPPED WITH SICKLE CONE AND TOOL WHEEL

Packed in individual carton.

Weight 9 1/2 pounds.

Six and Seven Inch Power Grinders Nos. 306 and 376



A medium duty belt driven bench grinder suitable for grinding edge tools, axes, plane bits, chisels, knives, etc.

Frame made to run belt from above, below, or the side.
A $\frac{1}{4}$ H. P. motor will operate this grinder satisfactorily.

Equipment includes:

One medium and one coarse $6 \times 1\frac{1}{4} \times \frac{5}{8}$ " DIMO-GRIT wheel. Two adjustable work rests.

MECHANICAL DETAILS

Dimensions of shaft.....	$13\frac{1}{4} \times 3\frac{1}{4}$ "
Dimensions of pulley.....	$2\frac{1}{4} \times 2$ "
Distance between wheels.....	8"
Height of shaft above bench.....	4"
Bench space required.....	$5\frac{1}{2} \times 5\frac{1}{2}$ "

Recommended operating speed between 2546 and 3183 R. P. M. of grinding wheels.

$2\frac{1}{2}$ " bearings; spring cap oilers; enamel finish.

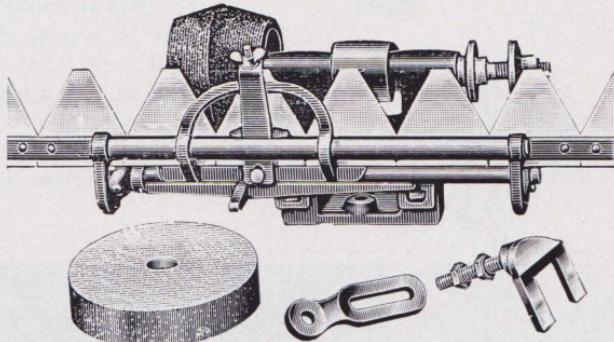
Tool rests are individually adjustable.

No. 306—One in a carton. Shipping weight 21 pounds.

No. 376—Same as No. 306, but equipped with $7 \times 1\frac{1}{4} \times \frac{5}{8}$ " DIMO-GRIT wheels, one coarse and one medium grit. One in a carton. Shipping weight 22 pounds.

Power Sickle and Tool Farm Grinder

No. 307



A sturdy power grinder made for sharpening farm edge tools, sickles, axes, chisels, harrow discs, ensilage knives, etc.

May be driven with $\frac{1}{4}$ H. P. motor, or off line shaft. Frame constructed to run belt from below, above or the side.

One $6 \times 1\frac{1}{4} \times \frac{5}{8}$ " medium grit DIMO-GRIT grinding wheel, one $5\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{8}$ " DIMO-GRIT double bevel face sickle cone. Requires $5\frac{1}{2} \times 5\frac{1}{2}$ " bench space. $8\frac{1}{2}$ " between wheels. Steel wheel shaft $13\frac{1}{4} \times \frac{3}{4}$ ". Bearings $2\frac{1}{2}$ " long, bearings overhang flanges, acting as dust caps and keep abrasive, etc., out of bearings. Pulley size $2\frac{1}{4}$ " diameter, 2" face. A "V" grooved pulley can be furnished.

SICKLE ATTACHMENT

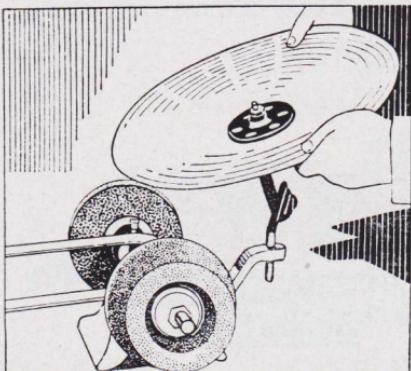
Sickle attachment of improved design which permits sharpening six sections without reclamping in holder. Sharpens mower knives accurately from tip to heel with a uniform bevel. Clamping unit works easily. A rest or support is part of the holding attachment which prevents bar tipping backward.

DISC ATTACHMENT

An attachment for holding harrow discs is also included, but this can be omitted when desired.

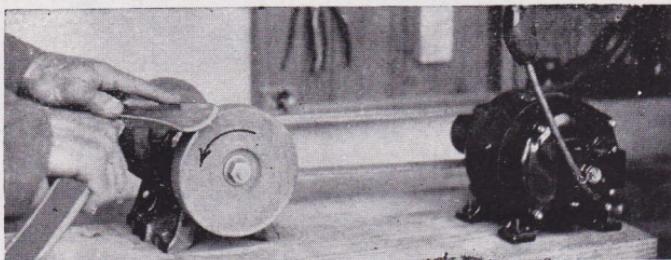
No. 307, complete with work rest sickle attachment, disc attachment, $6 \times 1\frac{1}{4} \times \frac{5}{8}$ " tool wheel, $5\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{8}$ " sickle cone, one in carton, weight 30 pounds.

Power Farm Grinder No. 307



DISC SHARPENING

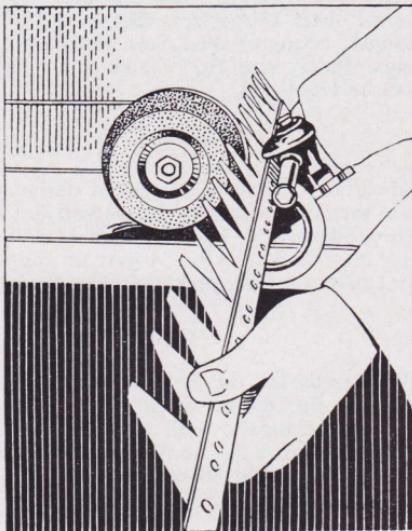
Sharpens all makes and sizes of harrow discs. Tool wheel is used. Disc centers correctly on support attachment. Adjustable for bevels, position, height, etc.



This illustrates how the No. 307 may be mounted on a portable wood platform. Details sent on request.

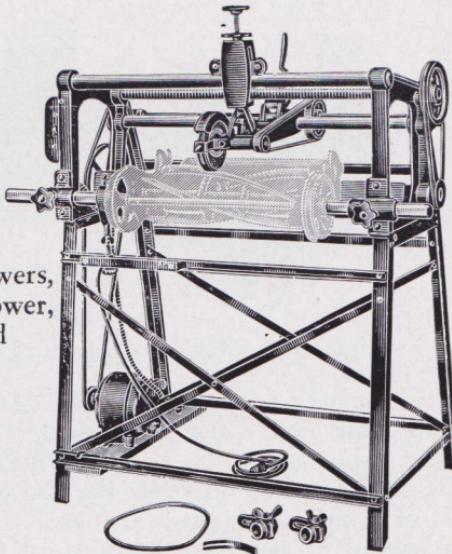
SICKLE SHARPENING

All the weight of the bar is supported by the attachment so operator needs only to move knife over the face of the beveled wheel. Six sections ground per set up. A uniform, accurate edge wheel should be refrom tip to heel. Tool moved.



Luther Lawn Mower Sharpener No. 348

Sharpens Mowers,
Hand and Power,
30 Inches and
Smaller.



The Luther Sharpener has proven a money maker for many users because it enables the operator to do a more satisfactory job in a reasonable time. It grinds mowers on centers like it would be done on a lathe — accurately — reel knives and cutter bar — and the cost of operating the machine is low. The machine is substantially made, built to last and to give good service.

Either left or right hand spiral blade lawn mowers may be sharpened by this machine. A guide or finger keeps the blade in proper position for grinding; this guide is adjustable for bevels and is mounted in front of the grinding wheel.

Striking or shearing plate can be ground, a special attachment is included in regular equipment, but plate must be taken off mower.

The sharpening season extends over practically the entire year, and for those who are favorably situated, the skate sharpening attachment is also a money maker.

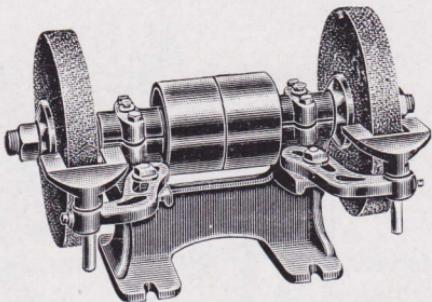
We send complete and illustrated instructions with each sharpener.

*Skate Sharpening Attachment No. 347A can be supplied
as extra equipment.*

SPECIFICATIONS

Occupies floor space . . .	24x45"	Motor	1/4 H. P.
Overall height	51"	Mower size capacity . . .	30"
Wheel size	5x 1/2x 3/8"	Shipping weight	325 lbs.
Furnished with male centers, reversing belt, extra finger or bevel guide, attachment for grinding cutter bars, cord with two-piece plug.			

Power Grinders for Shops, Garages, Farms



High Quality — Heavy Duty — Low Price

These high quality heavy duty Power Grinders carry a tight and loose pulley and have sturdy adjustable tool rests. Long split, adjustable babbittted bearings are used and the models carry only the highest grade vitrified wheels of carefully graded artificial abrasive grain. Proper spread of base affords bearings rigid support, eliminating vibration. Wire wheels, buffing, polishing or saw gumming wheel may be mounted.

SPECIFICATIONS

Shaft dimensions 17" long x $\frac{7}{8}$ " diameter. Size of pulleys $3\frac{1}{4}$ " diameter x $2\frac{1}{4}$ " long. Shaft bearings 3" long. Height of shaft from bench 7". Bench space required 9 x 6". Fitted with one coarse and one medium grit wheel.

P318—With 8x $1\frac{1}{2}$ " wheels. Pulleys 2 $\frac{1}{2}$ " dia. x 2 $\frac{1}{4}$ " long.
Weight packed, 50 pounds.

P320—With 10x $1\frac{1}{2}$ " wheels. Pulleys 3 $\frac{1}{4}$ " dia. x 2 $\frac{1}{4}$ " long.
Weight packed, 58 pounds.

P321—Head only—no wheels. Pulleys either of above sizes.
Weight packed, 35 pounds.

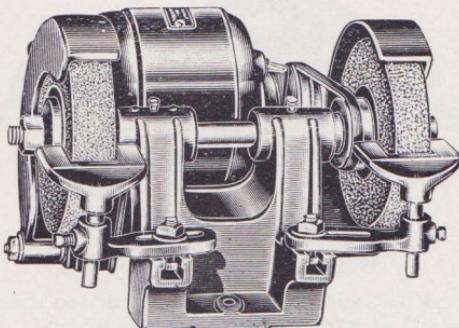
P317—With 7x $1\frac{1}{4}$ " wheels. Pulleys 2 $\frac{1}{2}$ " dia. x 2 $\frac{1}{4}$ " long.
Weight packed, 45 pounds.

P325—Extra heavy — Head only — no wheels. Pulleys 3 $\frac{1}{4}$ " dia. x 2 $\frac{1}{4}$ " long. Weight packed, 42 lbs.

P327—Extra heavy head with 12 x 1 $\frac{1}{2}$ " wheels. Pulleys 3 $\frac{1}{4}$ " dia. x 2 $\frac{1}{4}$ " long. Weight packed, 65 lbs.

If wanted with only one pulley instead of two on any of above models, deduct \$1.00 from list price.

Luther Electric Tool Grinder
No. 631



Unequalled for grinding, sharpening and polishing requiring dependable performance, power and speed. Needed for industrial uses, for schools, farms, garages, etc., wherever low initial and operating costs must be considered.

Motor frame obstruction is entirely eliminated, permitting use of sides or face of wheels. Longer life for motor, grinder shaft, and bearings because motor is set back away from grinding wheels. Abrasive and steel do not readily penetrate into bearings. Shaft is also protected by overhanging bearings.

Guards are mounted on the base, may be taken off without removing the wheel. Wheel capacity is $7 \times 1\frac{1}{4}$ ".

Tool rests are adjustable individually. T slot bracket fastening. Bevel guide, also support for grinding on side of wheel.

Motor is Standard $\frac{1}{4}$ H. P., 1725 R. P. M., 110 volt, single phase, A. C. V Belt Drive is powerful and positive. Long lasting — adjustable $5/16$ " Gilmer V belt.

Nine feet of rubber service cord with a two-piece plug. Control switch in the line.

Grinder sub-base is integral part of grinder frame. Thirteen inches long, eight inches wide, nine inches overall height. $5\frac{1}{4}$ " base to center of shaft. Motor has sliding adjustment for belt tightening. Motor also detachable. Bunting bronze wheel shaft bearings are renewable. $13\frac{1}{2} \times \frac{3}{4}$ " steel shaft; $\frac{5}{8}$ " at ends. Self closing spring cap oilers. Wheel shaft speed 2000 R. P. M. or 3770 surface feet per minute. Special attachments are available for sharpening chisels and plane bits; also twist drills, capacity $\frac{1}{4}$ " to $\frac{7}{8}$ ".

Baked enamel finish, both durable and attractive.

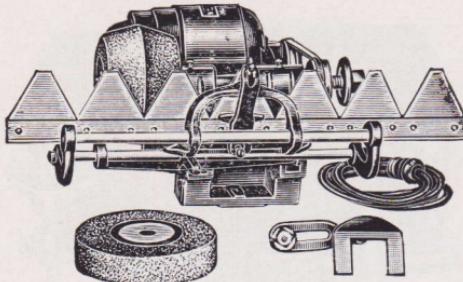
Convertible into sickle grinder by adding $5\frac{1}{2}$ " sickle cone and sickle holding attachment. Harrow disc sharpening attachment may also be installed on this tool grinder.

No. 631 equipment includes:

- 1— $6 \times 1 \times \frac{5}{8}$ " Medium Diamo-Grit Wheel
- 1— $6 \times 1 \times \frac{5}{8}$ " Coarse Diamo-Grit Wheel
- 2—Wheel guards
- 2—Adjustable tool rests

No. 631 all complete, assembled, ready for use, packed weight 70 lbs.

Luther Electric Sickle Grinder No. 641



A compact self-contained V belt motor driven Farm Grinder complete for all general sharpening requirements.

Unequalled for grinding, sharpening and polishing whenever dependable performance, power, and speed are demanded. For use on farms, in schools and blacksmith shops, etc.

Motor frame obstruction is entirely eliminated, permitting unlimited use of sides or face of wheels. Overhanging bearings prevent abrasive and metal particles readily penetrating into bearings. Motor is set back away from grinding wheels.

Grinder sub-base is integral part of grinder frame. Thirteen inches long, eight inches wide, nine inches overall height, $5\frac{1}{4}$ " base to center of shaft. Motor has sliding adjustment for belt tightening. Motor is detachable.

Motor is standard $\frac{1}{4}$ H. P., 1725 R.P.M., 110 volt, single phase, A.C.

Powerful and positive V belt drive. $5\frac{1}{16}$ " Gilmer V belt.

Nine feet of rubber service cord, with a two-piece plug. Control switch in the line.

Convertible into tool grinder by changing sickle cone to 6×1 " tool wheel and adding tool rest assembly.

No. 641 equipment includes:

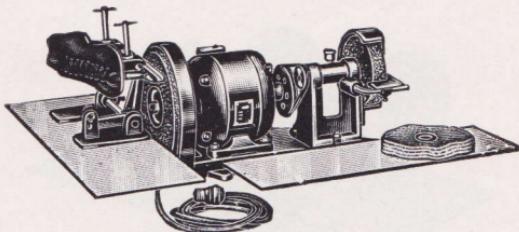
- 1— $5\frac{1}{2}\times 3\frac{1}{2}\times 5\frac{1}{8}$ " Dimo-Grit Sickle Cone
- 1— $6\times 1\times 5\frac{1}{8}$ " Medium Grit Tool Wheel
- 1—Adjustable tool rest for tool wheel
- 1—23B Sickle holding attachment

Has capacity for any size mower knife. Six sections ground per setting. Attaches to tool rest bolts on T slot brackets and does not need to be disassembled to mount on grinder. A stop or rest prevents bar dropping backward. Tool wheel should be removed when grinding sickles.

Disc sharpening attachment is available at small extra cost. Sharpens one disc individually, off harrow shaft.

No. 641 Grinder complete, ready for use—packed weight 70 lbs.

Luther Electric Skate Sharpener No. 341



A high grade electric grinder for quick and accurate sharpening of skates with *either hollow or flat ground edges*. Handles all makes or types of ice skates on or off shoes.

When skating is over, use the grinder for sharpening, grinding, polishing and buffing work. This all-year-round feature gives user a grinder for all work at a low price. Every repair shop and store can get some of this profitable business now.

Two grinding wheels — two speeds — two work tables of fixed smooth steel plates — new style tilting holding clamp that has provision made for changing set ups for tube or hockey type skates quickly and easily. Tool rest for wheel on the high speed head.

High grade ball bearings on high speed wheel shaft. Positive V belt drive. DIMO-GRIT wheel on motor shaft $8 \times \frac{3}{4} \times \frac{1}{2}$ " operating at 1725 R. P. M. Wheel on high speed shaft $5 \times 1 \times \frac{3}{8}$ " fine DIMO-GRIT operating at 3500 R. P. M. Grease lubrication for bearings. Power head is detachable. Base has three lugs for bench mounting.

Improved tilting skate clamp — angle adjustment on base of clamp; slides over the steel plates. Clamp is ample size for longest skate blades. Plates are removed to save space in shipping; smooth steel, size 24 x 7". Guards provided for both grinding wheels. Both are easily detachable.

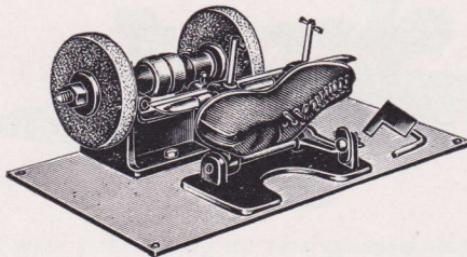
Grinder produces excellently finished *hollow or flat ground edge* that will please the most exacting customers.

No. 341 Equipment includes:

- 1— $6 \times \frac{5}{8} \times \frac{3}{8}$ " unsewed muslin buffing wheel
- 1— $8 \times \frac{3}{4} \times \frac{1}{2}$ " Dimo-Grit Wheel (Medium)
- 1— $5 \times 1 \times \frac{3}{8}$ " Dimo-Grit Wheel (Fine)
- 2—24 x 7" smooth steel plates
- 1—Tool rest for 5" wheel
- 1—Skate holding attachment
- 1— $\frac{1}{4}$ H. P.—110 Volt—1750 R. P. M. motor
- 1—Guard for each grinding wheel
- 9 feet of rubber cord with plug; switch furnished
- 1—9 x 12" orange and black advertising card

One No. 341 Grinder in crate, weight 125 pounds.

Luther Belt Drive Skate Sharpener No. 3407



This Luther Sharpener offers the biggest value for a low price. Good profits from skate sharpening work makes it easy to earn cost of sharpener several times in a season.

When skating is over, use the grinder for sharpening, grinding, polishing and buffing work. This all-year-round feature means complete service and a variety of uses. Every repair shop and store can get some of this profitable business now.

Sharpens a pair of tubular skates in less than five minutes' time — at 35 cents to 50 cents a pair, this is making money fast. All makes and types of skates can be sharpened quickly and easily. Requires no special skill to do good work.

Made for use with a $1/4$ H. P. electric motor, or line shaft drive; flat or V belt. All year use, as the grinder is made for all kinds of grinding and polishing.

Grinder produces an excellently finished hollow ground edge that will please the most particular customers.

Skate holding clamp is adjustable for various styles of tube and hockey pattern skates; new style quick change holding clamps. Clamp slides over steel plate. Angle adjustments made at base of clamp.

No. 3407 Skate Sharpener Equipment includes:

- 1—6 x 1 x $5/8$ " Dimo-Grit Wheel (Medium)
- 1—6 x 1 x $5/8$ " Dimo-Grit Wheel (Coarse)
- 1—Skate Holding attachment
- 1—Tool rest for right hand wheel, as illustrated
- 1—9 x 12" orange and black advertising card

Wheel shaft $13\frac{1}{4}$ x $3\frac{3}{4}$ ", Pulley $2\frac{1}{8}$ x 2", Smooth steel base plate (bench area required) 12 x 24", To center of shaft $4\frac{3}{4}$ ", Bearings overhang flange.

One No. 3407 Grinder packed, weight 65 pounds.

Handy Abrasive File for Farmers, Etc.



Beats all Competition

Nothing better for sickles, discs, etc., than this No. 253 Dimo-Grit File. Priced to sell in big quantities. Fully vitrified, made of best quality electric furnace abrasive. Stone is 9" long, tapers $1\frac{1}{4}$ " to 1" thick, overall length with wood handle 14", width tapers 2" to $1\frac{1}{2}$ " at bottom and $1\frac{1}{2}$ " to 1" at top.
No. 253 Dimo-Grit File, one dozen in carton, weight 20 pounds.

Figure 8 Scythe Stone Has No Equal



Something different and better in Scythe Stones

Has two cutting edges on two sides—makes sharpening twice as fast as ordinary stone. Steel rod center makes stone almost unbreakable. Full vitrified, made of best quality electric furnace abrasive. 10" long, $\frac{3}{4}$ " thick.

No. 251 Dimo-Grit Scythe Stone, two dozen in carton, weight 19 $\frac{1}{2}$ pounds.

This Scythe Stone Beats All Competition



The lowest priced vitrified scythe stone on the market. Beats all competition. A high quality stone without steel center. Fast and clean cutting qualities. 10" long, $\frac{5}{8}$ " thick, oval shape. No. 110 Dimo-Grit Scythe Stone, two dozen in carton, weight 19 pounds.

"Dimo-Grit" Wheels



Special structure wheels made of highest quality new abrasive, according to our own specifications, based on our experience (since 1896) in the grinder field. This enables us to give the user a very high grade, good quality wheel that will give satisfactory service. *Dimo-Grit* wheels of the improved quality now being supplied insure longest life and best service.

Medium Grit Standard Replacement wheels furnished with 1" or any standard size arbor hole. Exact hole sizes should be specified.

4 x $\frac{7}{8}$ "

6 x 1"

6 x $1\frac{1}{4}$ "

4 x 1"

7 x 1"

7 x $1\frac{1}{4}$ "

5 x 1"

Sizes for Sickle Grinders

4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ "—17 I/C Med. Dimo-Grit Tool Wheel.

3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ " Dimo-Grit Sickle Cone.

5 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x $\frac{5}{8}$ " (or 1/2") Dimo-Grit Sickle Cone.

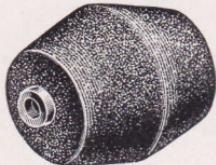
We also furnish saw gummers, special purpose, and special size wheels. Information and prices supplied on request.

Steel Arbor Reducing Bushings

These steel arbor reducers enable you to fit odd sizes of shafts — save time — they fit in 1" holes perfectly. We supply $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " hole sizes.

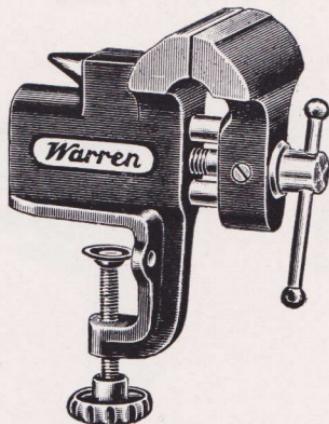


"Dimo-Grit" Sickle Cones



Small size cone for replacements on all hand sickle grinders, size 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ " fasten with cotter pin. Also for power grinders size 5 $\frac{1}{2}$ x 3 $\frac{1}{2}$ " with $\frac{5}{8}$ " and $\frac{1}{2}$ " holes. Vitrified Dimo-Grit, double beveled face, good quality wheels. Net weights 3 $\frac{1}{2}$ and 5 $\frac{1}{2}$ pounds respectively.

“WARREN” Brand Clamp Vises



Steel Guides — Plain Jaws

A clamp vise is indispensable to many users of tools, particularly for household, shop and garage use, also in mechanic's tool kits.

The three sizes listed below are made for light duty use but their rugged construction and accurate machine work make them favorites because quality is good and prices are low.

STRONG construction, two cold rolled steel guides; close grain cast iron oversize plain face jaws, machined to close limits for accurate fitting.

POR TABLE, adjustable clamp screw permits mounting on bench, running board, or any projecting surface.

ANVIL on stationary jaw.

Provided with bolt holes so vise can be bolted if desired.

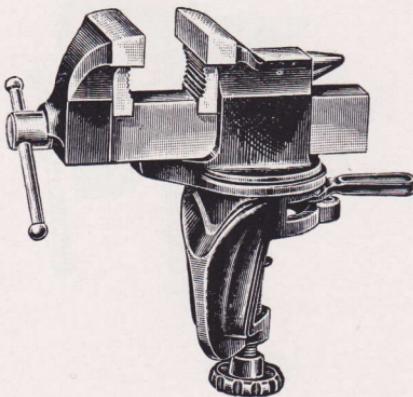
Accurately cut one piece steel feed screw with cross bar.

Attractive baked green enamel finish, polished jaws.

THREE SIZES

Number	V22	V22½	V23
Width Jaws.....	2"	2½"	3"
Open Jaws	1 7/8"	2 3/4"	3 1/2"
Weight	2 1/2 lbs.	4 1/4 lbs.	7 lbs.

Luther No. V73 $\frac{1}{2}$ " Portable Swivel Clamp Vises



Here is a finely made, sturdy swivel base clamp vise for general purpose use in shops and garages, farms, schools, etc., wherever a medium duty portable vise is required.

The portable clamping feature permits taking the vise to the work, saving time. Besides the clamping feature it has similar uses of the stationary bench vise. Vise swivels and locks positively at any angle. Provided with bolt holes for permanent mounting. Castellated adjusting nut on swivel devise for taking up any possible wear.

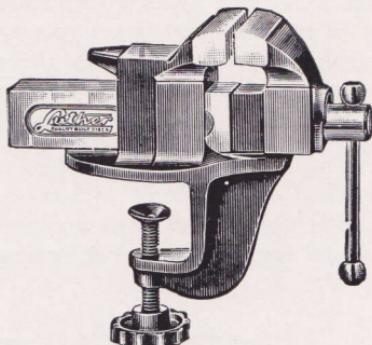
Accurately machined parts. Slide jaw milled four sides, and faces, closely fitted into standing jaw insuring good free movement. Anvil is part of stationary jaw. Feed screw guide nut and locking lever are malleable iron. Jaws and the anvil are highly polished. Paneled reinforced movable jaw. Clamp screw of steel with notched iron hand grip. One piece steel feed screw with heavy square cut threads, steel cross bar handle.

Hardened malleable iron pipe jaws, removable type.

Special fine texture grey iron castings insure greater strength and all strain parts reinforced. Good design and construction in every detail.

Glossy baked green enamel finish, orange striping on jaw sides, black enamel on clamp with satin nickel trim on locking lever and clamp screw parts.

No. V73 $\frac{1}{2}$ P swivel clamp vise, 3 $\frac{1}{2}$ " jaws, with pipe jaws, one in a carton, weight 14 pounds.

“LUTHER” Portable Clamp Vises**Stationary Base — Plain Jaws**

A clamp vise permits taking the vise to the work, and it clamps on almost anywhere. Indispensable around the home, garage, work shop, for repair and odd jobs, especially for radio and auto work.

Oversize jaws, accurately machined and fitted, slide jaw milled on all four sides, opening in the standing jaw broached, insuring a good fit and finish. Jaws are highly polished. Special panel type movable jaw, adds to strength of part and also to the appearance of the vise.

Sturdy anvil, part of standing jaw, also polished. Large malleable guide nut, renewable, securely fastened. All parts subject to strain oversize. Heavy sections throughout. Neat and attractive design.

One piece machine cut steel feed screw, heavy square threads. Heavy notched hand grip on clamp screw, nickel white finish. Bolt holes provided so user can mount permanently.

Glossy dark green baked enamel finish, orange striping on movable jaw.

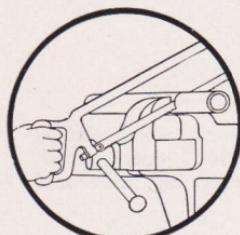
THREE SIZES

Number	V72	V72½	V73
Width Jaws	2"	2½"	3"
Jaws Open	2½"	2¾"	3"
Weight, lbs.	4½	6½	9

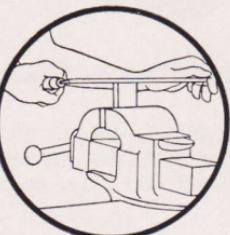
Luther Clamp Vises

Fixing household tools and garden implements usually demands the use of a vise. Sometimes you need one for repairing the washing machine, vacuum cleaner, electric iron and other equipment. When you need a nut from an old bolt, it is frequently impossible to get it off without a vise.

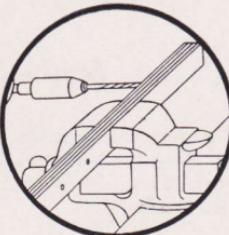
And here is the ideal Vise — built to last — extra wide jaws and extra wide opening of jaws increase utility — every detail designed for maximum convenience and unlimited service.



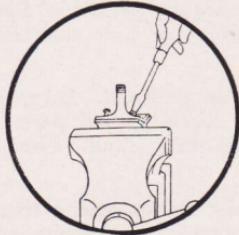
Sawing



Filing



Drilling



Radio Work



Auto Use

Countless Uses

A vise is most useful for general repairing and tinkering in the home, garage, auto tool equipment, in fact any place where an extra pair of hands is needed, or knuckles saved.

PRICE LIST

October 1, 1935

Luther Grinder & Tool Company

112 S. Second Street

Milwaukee, Wis., U. S. A.

Cancel All Previous Lists

Prices Subject to Change Without Notice

TERMS: 2 per cent discount 10 days, 30 days net

F. O. B. MILWAUKEE, WIS.

No.	Brand or Type	List Price	Pounds Net	Pounds Packed	Net Price
TOOL GRINDERS					
M4	Milwaukee, 4"	\$ 2.30 Each	4½	5	
M5	Milwaukee, 5"	3.14 Each	6¾	7¾	
M6	Milwaukee, 6"	4.20 Each	8½	9¾	
M7	Milwaukee, 7"	4.72 Each	9	10¾	
M4AL	Milwaukee, 4"	2.62 Each	4½	5	
M5AL	Milwaukee, 5"	3.68 Each	6¾	7¾	
M6AL	Milwaukee, 6"	4.70 Each	8½	9¾	
M7AL	Milwaukee, 7"	5.26 Each	9	10¾	
L4½	Work Shop Grinder, 4"	5.10 Each	8	9½	
L5½	Work Shop Grinder, 5"	5.90 Each	8½	10¾	
L6½	Work Shop Grinder, 6"	7.90 Each	14	15¾	
14	Mechanics' Special, 4"	5.75 Each	8½	9½	
15	Mechanics' Special, 5"	6.50 Each	11	13	
16	Mechanics' Special, 6"	8.50 Each	14½	16½	
17	Mechanics' Special, 7"	12.00 Each	23¾	26	
18	Mechanics' Special, 8"	14.00 Each	24½	27	
22	Jiffy Sharpener	1.50 Each	1¾	1¾	
	Jiffy Jr.	.90 Each	1¾		
24	Standard, 4"	3.26 Each	5½	6	
25	Standard, 5"	4.00 Each	7½	8½	
26	Standard, 6"	5.36 Each	9¾	11¾	
27	Standard, 7"	5.88 Each	10½	12	
34	Household, 4"	2.25 Each	4½	5½	
44	Warren, 4"	1.50 Each	4	5	
45	Warren, 5"	1.90 Each	4½	5½	
50	Best Maide, 4"	7.50 Each	10¾	13	
51	Best Maide, 5"	8.00 Each	11½	13¾	
52	Best Maide, 6"	9.00 Each	12¾	14½	
56	Best Maide, 6"	10.00 Each	15	17¾	
114	Master, 4"	3.60 Each	6	6½	
115	Master, 5"	4.40 Each	8½	9½	
116	Master, 6"	5.80 Each	11	11¾	
117	Master, 7"	6.40 Each	11¾	13	
170	Railway, 7"	14.50 Each	24	27	
175	Railway, 7"	16.00 Each	26	28	
177	Railway, 7"	25.00 Each	31	34	
1551	Barber, 4"	20.00 Each	14½	22	
164	Marvel, 4"				
	(Packed 6 in carton)	1.40 Each	4	4½	
	(Packed 1 in carton)	1.46 Each	4	4½	
165	Marvel, 5"	2.00 Each	5½	6½	
166	Marvel, 6"	2.40 Each	5¾	6¾	
194	Beauty, 4"	2.10 Each	4½	5	
195	Beauty, 5"	2.70 Each	5½	6	
196	Beauty, 6"	3.50 Each	6¾	7½	

No.	Brand or Type	List Price	Pounds Net	Pounds Packed	Net Price
FOOT POWER GRINDERS					
79	Farm Special Grinder	\$20.00 Each	60	70	.....
80	Farm Special Grinder	20.00 Each	50	70	.....
258	1 Sickle Cone, 1-6x1" wheel and sickle holder	14.00 Each	50	70	.....
259	2-6x1 Tool Wheels only...	13.50 Each	48	68	.....
260	1 Sickle Cone, 2-6x1" wheels and sickle holder	15.00 Each	54	74	.....
271	Hummer Grinder	30.00 Each	60	75	.....
SICKLE GRINDERS					
76	Milwaukee Grinder	6.30 Each	13 $\frac{3}{4}$	14 $\frac{1}{2}$	.....
82	Spartan Grinder	6.30 Each	13 $\frac{3}{4}$	16	.....
83	Spartan Grinder	7.30 Each	14 $\frac{3}{4}$	17 $\frac{3}{4}$	.....
84	Ball Bearing Grinder	7.30 Each	12 $\frac{3}{4}$	15 $\frac{3}{4}$	.....
85	Ball Bearing Grinder	8.40 Each	14 $\frac{1}{4}$	17 $\frac{1}{4}$	.....
L1	Moto Wheel	7.74 Each	14 $\frac{1}{2}$	23 $\frac{1}{2}$	.....
L2	Moto Wheel	9.74 Each	20	29	.....
POWER GRINDERS					
P214	4" Power Grinder	3.40 Each	6 $\frac{1}{2}$	7 $\frac{3}{4}$	.....
P214B	Buffer and Power Grinder..	3.40 Each	5 $\frac{1}{2}$	6 $\frac{3}{4}$	.....
P215	5" Power Grinder	4.30 Each	7 $\frac{1}{4}$	8 $\frac{1}{2}$	.....
P215B	Buffer and Power Grinder..	4.30 Each	5 $\frac{3}{4}$	7 $\frac{1}{4}$	.....
P216S	Power Sickle and Tool Grinder, 4 $\frac{1}{2}$ " Cone and 4" Wheel	5.20 Each	7 $\frac{1}{4}$	8 $\frac{1}{2}$	.....
294	4" Power Grinder	6.60 Each	9 $\frac{1}{2}$	10 $\frac{1}{2}$	.....
295	5" Power Grinder	7.40 Each	11	12	.....
296	6" Power Grinder	8.00 Each	12 $\frac{1}{2}$	13 $\frac{1}{2}$	.....
302	Stand with 2" Wheel	2.00 Each	2 $\frac{1}{2}$	3	.....
303	Stand with 3" Wheel	2.00 Each	2 $\frac{1}{2}$	3	.....
306	6" Power Grinder	7.80 Each	17 $\frac{1}{2}$	20	.....
376	7" Power Grinder	9.20 Each	19 $\frac{1}{2}$	22	.....
307	Power Sickle Grinder	10.20 Each	27	29	.....
307	Grinder, Less Disc At..	9.70 Each	25	30	.....
309	7" Power Grinder	14.70 Each	34	36	.....
310	7" Power Grinder	15.70 Each	35	37	.....
P317	Heavy Duty Grinder (with 7x1 $\frac{3}{4}$ " wheel)	14.50 Each	39	45	.....
P318	Heavy Duty Grinder (with 8x1 $\frac{1}{2}$ " wheel)	17.00 Each	46	50	.....
P320	Heavy Duty Grinder (with 10x1 $\frac{1}{2}$ " wheel)	19.70 Each	52	58	.....
389	8" Power Grinder	18.00 Each	37 $\frac{1}{2}$	39 $\frac{1}{2}$	.....
390	8" Power Grinder	19.00 Each	38 $\frac{1}{2}$	40 $\frac{1}{2}$	.....
315	10" Power Grinder	31.00 Each	72	93	.....
316	10" Power Grinder	32.00 Each	75	95	.....
334	4" Power Grinder	4.20 Each	6 $\frac{1}{4}$	7	.....
335	5" Power Grinder	4.80 Each	7 $\frac{1}{4}$	8	.....
POWER GRINDERS, LESS WHEELS					
P210	Grinder, Less Wheels	2.10 Each	4 $\frac{1}{4}$	5 $\frac{1}{2}$	.....
290	Grinder, Less Wheels	5.00 Each	7 $\frac{3}{4}$	8 $\frac{1}{2}$	.....
300	Stand, Less Wheel	1.75 Each	2 $\frac{1}{4}$	3	.....
301	Stand with Chuck	3.50 Each	2 $\frac{1}{2}$	3 $\frac{1}{4}$	.....
306	Grinder, Less Wheels	5.80 Each	12	14 $\frac{1}{2}$	.....
309	Grinder, Less Wheels	12.00 Each	27	29	.....
310	Grinder, Less Wheels	13.00 Each	27	29	.....
315	Grinder, Less Wheels	26.00 Each	58	78	.....

No.	Brand or Type	List Price	Pounds Net	Pounds Packed	Net Price
316	Grinder, Less Wheels	27.00 Each	58	78	
P321	Heavy Duty Grinder (Head only—no wheel)	11.50 Each	29	35	
333	Grinder, Less Wheels	3.25 Each	4	4½	
VISES (Portable Clamp)					
V22	Warren, 2" Clamp Vise...	.90 Each	2	2½	
V22½	Warren, 2½" Clamp Vise	1.40 Each	4	4½	
V23	Warren, 3" Clamp Vise...	2.00 Each	6	6½	
V72	Luther, 2" Clamp Vise.....	1.60 Each	4	4½	
V72½	Luther, 2½" Clamp Vise..	2.20 Each	5	5½	
V73	Luther, 3" Clamp Vise.....	3.00 Each	7½	8	
V73½P	Luther, 3½" Swivel Vise with Pipe Jaws	4.60 Each	12½	14	
ELECTRIC GRINDERS					
E12	Electric Household Sharpener	\$ 9.20 Each	4	6	
631	6" ¼ H.P. A.C. 110v. 60c. Portable Tool	44.00 Each	60	70	
631	Electric, Less Motor	22.00 Each	37	40	
641	6" ¼ H.P. A.C. 110v. 60c. Sickle and Tool	46.00 Each	60	70	
641	Electric, Less Motor	24.00 Each	42	45	
SKATE SHARPENERS					
341	Electric Bench, A.C.	69.50 Each	85	110	
3407	Belt Drive, Less Motor	22.00 Each	45	65	
3407M	With ¼ H.P. A.C. 60c. 110v. Motor	51.50 Each	65	85	
LAWN MOWERS					
SHARPENERS					
348	30" with ¼ H.P. A.C. Motor	136.50 Each		325	
348	Less Motor	112.00 Each		305	
MISCELLANEOUS					
T20	Chisel Attachment	1.50 Each	1½		
10D	Guards for 309-310	3.60 Pair	6		
11D	Guards for 315-316	6.00 Pair	13		
17B	Sickle and Disc Attach...	3.00 Each	4½		
18B	Sickle Attachment	1.50 Each	2½		
37	Column for 309-310	13.00 Each	45		
39	Column for 315-316	26.00 Each	102		
J41	Skate Clamp	5.00 Each	5¾		
127A	Foot Power Attachment	3.00 Each	4		
129A	Foot Power Attachment	3.00 Each	4		
141	Wheel Dresser .....	.50 Each	½		
184A	Adz Attachment	2.00 Each	1½		
186A	Twist Drill Attachment	4.50 Each	2½		
187A	Flat Drill Attachment	4.00 Each	3		
188A	Chisel Attachment	2.50 Each	2		
300A	½" Cap. Chuck	1.75 Each	½		
347A	Skate Attach. for 348	10.00 Each	10		
551A	Shear Attachment	4.00 Each	1½		
552A	Clipper Attachment	3.00 Each	3		
731A	Chain Drill	2.75 Each	2		
732B	Chain Drill	3.00 Each	2		
733C	Chain Drill	5.00 Each	2½		
925AC	Sickle and Disc Attach...	4.00 Each	6		

No.	Brand or Type	List Price	Pounds Net	Pounds Packed	Net Price
1007B	Chisel Attachment	1.50 Each	1		
1007H	Chisel Attachment	1.50 Each	1½		
E12C	Chuck for E12	.60 Each			
WIRE WHEEL BRUSHES					
3x $\frac{3}{8}$ x $\frac{7}{16}$ "	for E12 Grinder	.80 Each			
4x $\frac{1}{2}$ x $\frac{3}{8}$ "	for P214 Grinder	.90 Each			
5x $\frac{1}{2}$ x $\frac{3}{8}$ "	for P215 Grinder	1.10 Each			
6x $\frac{1}{2}$ " (Arbor Size Optional)		1.30 Each			
Write for Discounts in Dozen Lots.					
BUFFING WHEELS					
3x $\frac{1}{2}$ x $\frac{7}{16}$ "	Buffing Wheel for E12...	\$.60 Each			
4x $\frac{1}{2}$ x $\frac{3}{8}$ "	Buffing Wheel for P214...	.70 Each			
5x $\frac{1}{2}$ x $\frac{3}{8}$ "	Buffing Wheel for P215...	.90 Each			
6x $\frac{1}{2}$ " (Arbor Size Optional)		1.10 Each			
Write for Discounts in Lots of Six or More.					
ASSORTMENTS					
L101	Wheel Assortment	8.96 Each		24	
SG1	Saw Gummer Assortment	5.54 Each		8	
17	Vises	14.90 Each		50	
*20	Grinding Wheels	19.30 Each		15	
*Subject to grinding wheel discounts.					
SICKLE CONES					
3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{1}{2}$ "	Dimo Cone	1.40 Each	3		
4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x $\frac{1}{2}$ "	Dimo Cone	2.20 Each	4½		
{ 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x $\frac{1}{2}$ " }	Dimo Grit Sickle	2.70 Each	5½		
{ 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x $\frac{5}{8}$ " }	Cones				
SCYTHE STONES					
110	Fast Cutting, 10" Heavy...	3.00 Doz.		*19½	
251A	Scythe Stone, 10" Fig. 8...	3.00 Doz.		*19	
253	Abrasive File	9.00 Doz.		20	
*(2 Dozen in Carton)					
3X	Axe Utility Stone	4.80 Doz.		*6	
*(2 display cartons $\frac{1}{2}$ doz. each).					

PATENTED STEEL REDUCING BUSHINGS

To Fit Wheels with 1" Arbor.

Single Lots	\$0.30 Set
Dozen Lots	.12 Set
$\frac{1}{8}$ ", $\frac{7}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ "	

PRICE LIST OF GRINDING WHEELS

THICKNESS OF WHEELS

Diam.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
3.....	\$0.90	\$0.95	\$1.05	\$1.10	\$1.20	\$1.30	\$1.35	\$1.50	\$1.80	\$2.50	\$2.75	
4.....	1.40	1.50	1.70	1.85	2.00	2.20	2.35	2.70	3.00	3.35	3.70	
5.....	1.80	2.00	2.30	2.50	2.70	2.95	3.20	3.65	4.10	4.55	5.00	
6.....	2.30	2.60	2.90	3.20	3.50	3.80	4.10	4.70	5.30	5.90	6.50	
7.....	2.75	3.15	3.55	3.90	4.30	4.75	5.15	5.85	6.70	7.50	8.25	
8.....	3.25	3.75	4.25	4.75	5.30	5.75	6.25	7.25	8.30	9.30	10.30	
10.....	4.30	5.15	5.90	6.70	7.45	8.20	9.00	10.50	12.25	14.00	15.75	
12.....	5.50	6.20	7.25	8.25	9.35	10.40	11.50	13.75	15.75	17.85	20.00	
14.....				9.30	10.80	12.30	13.80	15.25	18.25	21.20	24.20	27.15
16.....						15.75	17.75	19.75	23.75	27.70	31.70	35.70

Discounts or any information regarding wheels, etc., furnished upon request.

